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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/601,652	06/24/2003	Masatoshi Yokota	0754-0192P	1286
2292 7	7590 04/20/2006		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			HUNTER, ALVIN A	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3711	
			DATE MAILED: 04/20/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/601,652	YOKOTA, MASAT	OSHI				
	Office Action Summary	Examiner	Art Unit					
		Alvin A. Hunter	3711					
Period fo	The MAILING DATE of this communi or Reply	cation appears on the cover shee	et with the correspondence ad	dress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMIT of 37 CFR 1.136(a). In no event, however, munication. Itutory period will apply and will expire SIX (6) will, by statute, cause the application to become	UNICATION. ay a reply be timely filed MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).					
Status	•							
1)⊠	Responsive to communication(s) file	d on <i>14 March 2006</i> .	-					
2a)		2b)⊠ This action is non-final.						
3)	Since this application is in condition	•—-	natters, prosecution as to the	e merits is				
	closed in accordance with the practic		·					
Disposit	ion of Claims			!				
4)🖂	. 4)⊠ Claim(s) <u>1,2,4,6,7 and 9-16</u> is/are pending in the application.							
·	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)								
6)⊠	Claim(s) <u>1,2,4,6,7 and 9-16</u> is/are rej	ected.	-					
	Claim(s) is/are objected to.							
<u> </u>	Claim(s) are subject to restric	tion and/or election requirement						
	ion Papers	·						
	•	- Eversions						
<u> </u>	The drawing(a) filed on interest		d to butbe Evenine					
10)	The drawing(s) filed on is/are:			!				
	Applicant may not request that any object							
441	Replacement drawing sheet(s) including	·		` '				
11)	The oath or declaration is objected to	by the Examiner. Note the attac	ched Office Action or form PT	O-152.				
Priority (under 35 U.S.C. § 119		•					
	Acknowledgment is made of a claim f ☑ All b) ☐ Some * c) ☐ None of:	or foreign priority under 35 U.S.	C. § 119(a)-(d) or (f).					
a)		documents have been received.						
	<u> </u>	documents have been received		Ctana				
		of the priority documents have be nat Bureau (PCT Rule 17.2(a)).	een received in this mational.	Stage				
* c	See the attached detailed Office action	•	not received					
		Tion a list of the certified copies	not received.					
		·	•					
A44 - a b	A/~\							
Attachmen 1) Notice	ce of References Cited (PTO-892)	A\ ☐ Intoné	iew Summary (PTO-413)	!				
	e of Draftsperson's Patent Drawing Review (P		No(s)/Mail Date	İ				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or ler No(s)/Mail Date		e of Informal Patent Application (PTO:)-152)				
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Application/Control Number: 10/601,652

Art Unit: 3711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 6, 7, and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herbert et al. (USPN 6132324) in view of Wu (USPN 5908358) further in view of Wu (6210294).

Herbert et al. discloses a golf ball having a cover comprising a thermoset urethane cover having a thickness of less than about 0.05 inches, or 1.27mm, and a Shore D hardness of about 30 to 60 (See Summary of the invention and Column 5, lines 3 through 39). Herbert et al. also discloses that the type of polyurethane is not limited to that disclosed therein. Wu '358 discloses a thermosetting urethane golf ball cover wherein the thermosetting urethane resin composition comprises an isocyanate groupterminated urethane prepolymer and a polyamine compound covering a core having a Young's modulus, also known as modulus of elasticity or stiffness modulus, from about 5000 to 100000 psi, or 34.5 to 689.5 MPa (See claim 1 of Wu '358). In table 1, Wu '358 shows examples of golf balls in which bear the cover of the present invention wherein it is shown that the covers have a hardness of 51 to 58 Shore D. From the above, a modulus of at least 102 to 116 MPa would satisfy the applicant's criteria, and therefore, would anticipate the above claims. Wu '358 discloses that the types of polyurethane that

Application/Control Number: 10/601,652

Art Unit: 3711

may be used are of thermoplastic and thermoset type in which examples of how those types are made. One having ordinary skill in the art would have found it obvious to incorporate the polyurethane of Wu'358 into the golf ball taught by Herbert et al. in order to improve shear resistance. Wu '358 does not limit the polyurethane to having the types of isocyanates disclosed. Wu '358 also established that alicylic isocyanates, which inherently has color stabilizing characteristics, could also be used to produce thermoset polyurethane (See Column 5, lines 39 through 50). Wu '294 discloses a polyurethane composition have dicyclohexylmethane diisocyanates and isophorone diisocyanate (See Summary of the invention). One having ordinary skill in the art would have found it obvious to use the above isocyanates within Wu '358 in order to increase the initial velocity of the golf ball.

Response to Arguments

Applicant's arguments with respect to claims 1, 2, 4, 6, 7, and 9-16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin A. Hunter whose telephone number is (571) 272-4411. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Kim, can be reached on 571-272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Alvin A. Hunter, Jr.

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